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May 15th, 1950
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Washington Highlights

A bill returning to the states full sovereignty over coastal tidelands and their mineral rights has been formally approved by the House Judiciary Committee. Chairman Celler, Democrat of New York, who voted against the measure, said a strong minority report would be made in an effort to defeat the bill when it reaches the floor. House Speaker Rayburn indicated there would be no early consideration of the measure by the House. States under the terms of the bill would own submerged coastal lands three miles out from their shorelines. In the case of Texas, the limit is 10½ miles, because of conditions under which it entered the Union.

The Federal Power Commission has postponed a public hearing on the Southern Counties Gas Company of California application for a rate increase from May 17 to June 12.

Ernest A. Tolin has been confirmed by the Senate as United States Attorney for the southern district of California, to succeed James N. Carter.

Representative Richard Nixon, candidate for the Senate from California, views the recent slashes in postal services and fanciful economies in Post Office operations as "just a dodge by Washington bureaucrats to needle the public in protesting such pseudo-retrenchments and thus prevent actual economies."

Charles A. Eaton, 82, Republican Congressman and ranking GOP House spokesman on foreign affairs, has won renomination for 14th term. He won easily over two opponents in New Jersey's 5th Congressional District primary election.

The U. S. Bureau of Labor Statistics estimates employment in petroleum production and refining will gradually increase in the next five to 10 years. Approximately 1,500,000 persons are now employed in the industry. A continued rise in demand for oil products is indicated, according to the bureau.

During the current month, the U. S. Bureau of Mines figures that 5,100,000 barrels of domestic crude oil will be consumed or exported daily. This compares with 5,030,000 forecast for April and 5,316,000 barrels a day in actual crude runs to stills in February along with an indicated demand of 5,060,000 barrels daily in March.

The Federal Power Commission has given the proper authority to Transcontinental Gas Pipeline Corporation to expand its Texas to New York natural gas pipeline. The Houston, Tex., firm is building a line to transport 340,000,000 cubic ft. of gas daily. The commission authorized an expansion to a capacity of 505,000,000 cubic ft. The over-all cost of the expanded Transcontinental system was reckoned at $240,000,000, against $191,000,000 for the original pipeline. Word from Arizona, denoted no further objections are anticipated from Northern Arizona to the El Paso Natural Gas Company's project for a new pipeline from the San Juan field in New Mexico to the California border. Prior protests evidently were prompted by the belief that the quantities of gas from the proposed line, allotted to seven Arizona communities were insufficient to take care of needs in the future. Chief objective of the El Paso company is delivery of 400,000,000 ft. of gas a day for use in the San Francisco region.

Calling for Congressional action to tighten up the nation's security laws, Cornelius Vanderbilt Whitney has resigned as Undersecretary of Commerce. Whitney told President Truman that he believes that, while the loyalty program is working well, it does not go far enough in rooting out "poor security risks" in Government.

Former Secretary of State James F. Byrnes has returned to politics by becoming a candidate for Governor in the South Carolina Democratic primary. He faces three other declared candidates in the summer campaign.

"Oilwell" Swivels get New Names

TELEGRAM

TO: MR. DRILLER--"OILWELL" REMOVES MYSTERY FROM SWIVEL RATINGS. SAME DEPENDABLE SWIVELS ARE NOW DESIGNATED TO GIVE TONNAGE RATINGS AT A GLANCE. CORRECT SWIVEL CAN NOW BE SELECTED WITH MINIMUM CHANCE OF ERROR.

"Oilwell" Swivels are designed in four sizes so that you can select the proper size to meet your drilling requirements without paying for unnecessary capacity. Regardless of size, all "Oilwell" Swivels embody field-proved design principles which result in outstanding performance and low maintenance.

"Oilwell" is renaming its complete line so that you can tell at a glance both the TONNAGE RATING and the TOOL-JOINT PIN SIZE involved. Using the former 300-D Swivel as an example, the new designation was derived in this manner:

Swivel	6" Tool-Joint Pin	400 tons Dead-Load Capacity
S	6	400

New Designation	S4-100	S5-200	S6-300	S6-400
Old Designation	60-C	100-C	150-C	300-D

STUDY THE SWIVEL RATING CHART (above) which shows recommended drilling depth, dead-load capacity in pounds and other important data for each swivel size.

"Oilwell" representatives will be glad to help you make a thorough analysis of your operating conditions and select the swivel indicated to meet your drilling requirements.

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Research In The Petroleum Industry Today and Tomorrow

By C. K. Viland, General Supervisor of Research and Development of Tide Water Associated Oil Company's Western Division.

April Meeting

C. K. Viland

Petroleum refining technology for the past decade has offered never a dull moment. The impetus of the recent war brought on rapid development of many new processes urgently needed to fuel the conflict. Looking ahead the next twenty years it is apparent that the petroleum industry's chemists and engineers must further devise newer methods to economically and fully refine heavier and higher-sulfur crudes remaining as reserves; as well as to produce acceptable synthetic fuels from undeveloped potential sources such as oil shale and coal.

Ultimately, when man has depleted his mineral stores of "fossil" energy, technologists will learn to harness the sun's rays for fuel. All the available mineral fuel, excluding any energy that may become available from nuclear fission, is in reality stored solar energy in the form of remains of ancient plant and other life. It is worthy of note that in only three weeks time enough energy from the sun reaches the earth's surface to equal all the world's known solid, liquid and gaseous fuels. However, American petroleum reserves represent a volume equal to about 15 years' current usage; Colorado oil shales can produce at least another 100 years' liquid fuels supply for this country; and U. S. coal deposits contain enough energy for perhaps 1000 years at the present rate of consumption.

It presently seems that fuels for automobiles, airplanes and similar equipment will continue into the foreseeable future as liquid fuels. The oil industry will continue to be the principal source of supply.

Now the United States' domestic demand requires the refining of nearly 6,000,000 barrels daily of petroleum. Nearly 40% of this volume must be produced as gasoline of quality suitable for use in relatively small, high compression-ratio, high output, internal combustion engines.

Major Refining Processes

Needless to say the requirements of more than 55 million gallons daily of high octane motor fuel cannot be produced by simple distillation of crude petroleum. The crude oil supply simply does not contain this volume of naturally-occurring gasoline. However, the primary distillation unit is the basic plant of any oil refinery; and its operation today is almost completely automatic through use of centrally located control instruments. These controllers actuate devices for maintaining predetermined pressures, temperatures, flows, liquid levels and other variables. Uniform products are obtained as long as the same crude is charged. These same automatic control devices are the nerve centers of all the auxiliary refining units whose functions have nearly doubled the yield of gasoline from crude oil.

Prior to the war refining process in established use included in addition to primary, secondary or vacuum distillation; thermal cracking; coking; polymerization; solvent refining including deasphalting and dewaxing; and various conventional treating and finishing methods. The more important newer processes receiving great impetus from the war included catalytic cracking; alkylation of light olefines and isoparaffins to produce a mixture of synthetic isoparaffins of higher molecular weight; isomerization of straight chain saturated hydrocarbons into isoparaffins; superfractionation to recover substantially pure hydrocarbons;; hydroforming to produce aromatics; azeotropic and extractive distillation to recover pure aromatic hydrocarbons; hydrogenation and dehydrogenation; as well as other methods approaching, or truly in the field of chemical synthesis. The vast synthetic rubber industry, based on petroleum, was war-born. Other chemical industries using petroleum as basic raw material are now springing up in large numbers.

Importance of Research

All of the refining processes known today are the fruits of extensive petroleum research programs. Such work is also responsible for the increasing number of products into which crude petroleum is refined or synthesized. Research might be defined as an industry whose raw materials are ideas and whose finished products come out in the form of marketable materials or process savings that show a profit to the company.

Research today is big business. Industrial research in the United States in 1947 employed some 139,000 people, with an annual expendi-

wide SPEED and POWER range...with the SMOOTH FLEXIBILITY of steam!

● Bell & Burden are drilling Grub Lease Well A-11 at Ventura, California, with the new Hydro-drive drilling rig. Four Waukesha Model 6-WAKD Super-Duty Diesels power both drawworks and mud pumps. Built by Bethlehem Supply Co., this completely modern drawworks is designed for drilling to 7500 ft. Rugged, simple and stall-free the unit tandems the power of its two Waukesha Diesels to the drawworks through hydraulic torque converters and direct-acting air clutches. The resulting infinite range of speed and power ratios automatically gives all the smoothness and flexibility of steam. On the mud pumps the tandem drive is direct. All four Diesel units are Waukesha Model 6-WAKD—a four-stroke cycle, overhead valve, six cylinder Diesel engine, 6¼-in. x 6½-in., 1197 cu. in., that burns all "high-speed Diesel fuels" cleanly, with lively acceleration, high economy and easier starting. Get Bulletin 1115.

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ture therefor of three-quarters of a billion dollars. Of this, about 100 million represents the oil industry's share.

Government also is entering the research field in an important way, as the dollar value of its research, publicly reported, is nearly as large as the total for industrial research even before including an extremely large figure for research on atomic energy. The dollar amount of work in such field is not available for publication.

With these figures in mind it is well for a research director to draw up profit and loss balance sheets from time to time in order to command facts that will justify his research budget. One large American Oil company that has been keeping such records for the past ten years has published figures indicating its research organization has realized a profit of $15 for each $1 spent. This is broken down 24% for savings in royalties; 63% for savings due to improvements in processes and products; and 13% on profits from new products. Only solid facts will enable a research director to convince his management that research is not only insurance, but a profit-making venture for his company.

That the petroleum industry will take the leadership in developing methods for making fuels and lubricants from sources other than crude oil in the future is indicated from the $100 million annual investment in research. About 3% of the oil industry's total income is plowed back into research, a fair share of which is presently spent on experimental work with synthetic fuels.

Research on Production Methods

Most emphasis on petroleum research to date has been placed on refining methods and on the development of new products. One field that still remains largely virgin is that of secondary recovery methods. It is generally accepted that a substantial percentage of the oil originally present in a given pool remains in the ground when the field is economically depleted due to declining production and rising unit operating costs. A notable example of successful secondary recovery has been the revival of the Pennsylvania fields through use of an artificial water drive.

Recently, some laboratories have been experimenting with new concepts in the field of secondary recovery methods. For example, microbiological research has shown that bacteria have the property of doing several things that may materially improve the recovery of petroleum from sand reservoirs and limestone pools. It has been reported limestone is dissolved slowly by the acids produced by the bacteria. Other microbes may produce detergent materials that reduce interfacial tension between oil and water and produce better pressure gradients in the sand. It is commonly observed in some oil fields that bacteria act on sulfur compounds in the field waste waters, liberating hydrogen sulfide. Other micro-organisms may produce other gaseous products which would increase reservoir pressure and help expel oil.

Work on secondary recovery methods should ultimately pay big dividends.

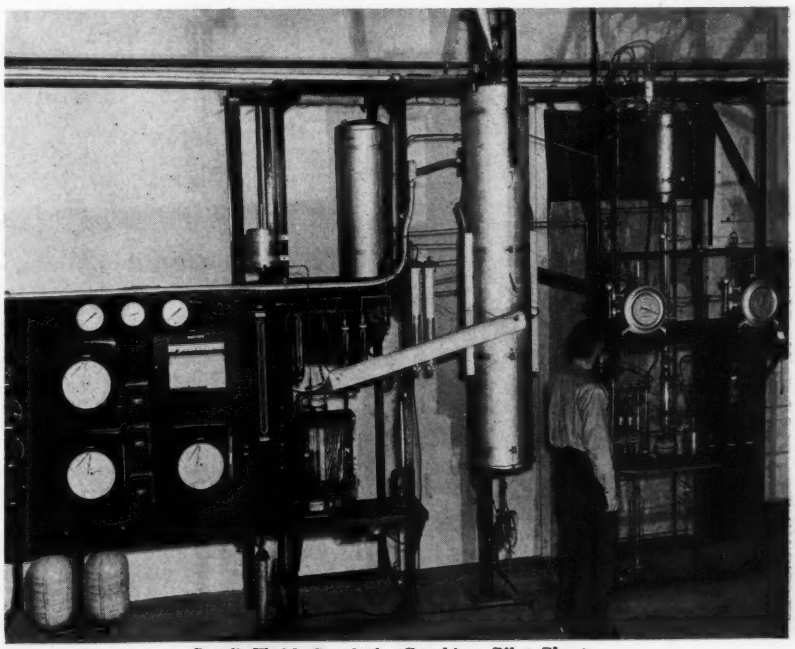
Pilot Plants for Research on Processing Methods

Most concerns supporting a research organization have recognized the value of pilot plants as a guide for planning new processes, as well as for improving the operation of existing commercial refining units. Pilot plants are receiving increasing attention and are becoming better understood as part of the general expansion of research in this country.

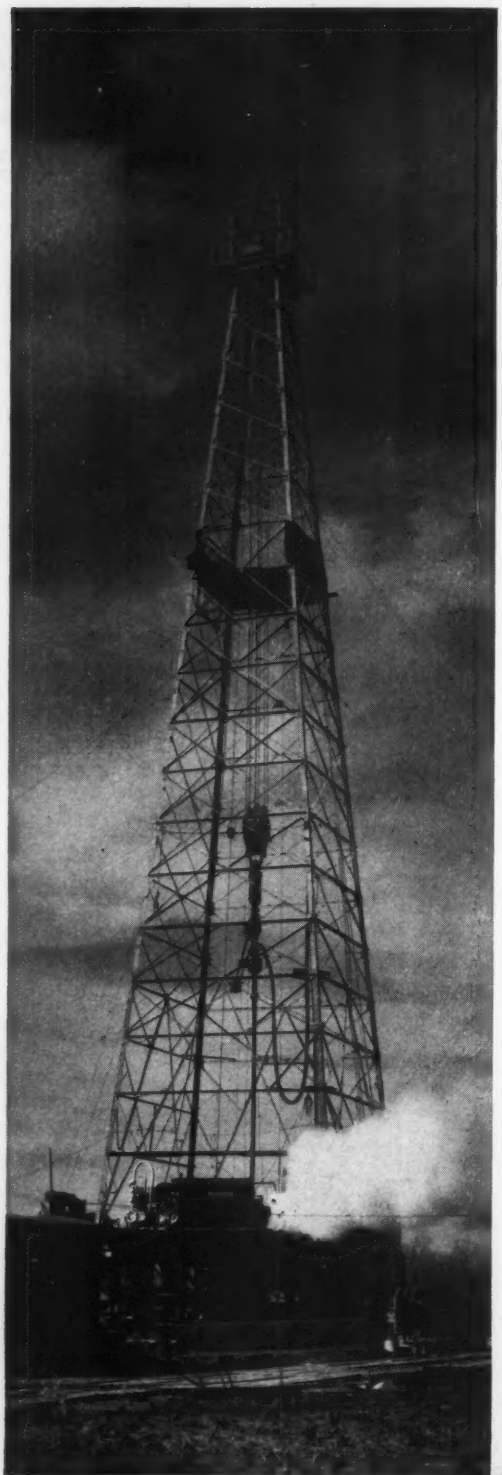
It is a not uncommon opinion that pilot units must be of large size if reliable results are to be obtained. This is not necessarily so. With modern control instruments and the availability of laboratory sizes of pumps, heaters, valves et cetera, bench-scale pilot plants today can be built capable of practically completely automatic operation and easily be controlled to obtain a high degree of reproducibility of data.

Small laboratory units when properly designed and constructed, have the advantages of larger pilot plants when semi-commercial quantities of products are not required. Other advantages are that only small amounts of charging stocks, catalysts, and process chemicals are needed; operating manpower requirements are at a minimum; and often special time-saving operating techniques can be applied. Initial cost, too, is usually less.

For example, midget laboratory catalytic cracking plants have proven practicable in reducing expensive experimentation with large commercial units. In one laboratory operating such equipment, it



Small Fluid Catalytic Cracking Pilot Plant.



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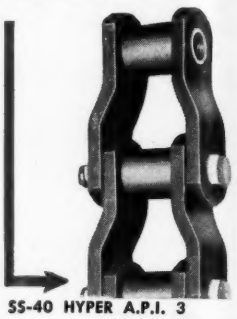
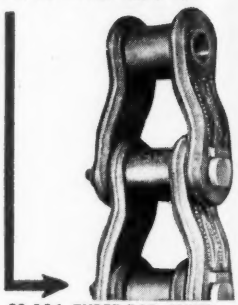
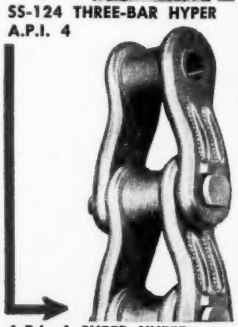


SS-40 HYPER A.P.I. 3



SS-124 THREE-BAR HYPER A.P.I. 4



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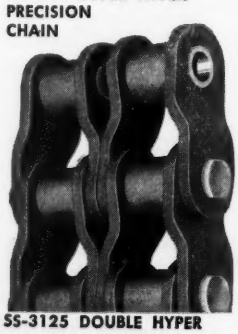

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is normal practice to start up a small fluid catalytic cracking unit, and because of its small size, quickly reach equilibrium operating conditions; and thereupon obtain yield data and samples under test and shut down all within a single 8-hour work shift. Many similar units, but of larger capacity, must operate on a 24-hour basis because of heat capacities and other considerations and require several times as much operational attention.

Laboratory testing can often be reduced and yield calculations in pilot plant operation simplified by such devices as a continuous automatically controlled product fractionator made integral with the unit.

A suitable pilot plant paralleling an important refining unit will usually pay big dividends, since plant management is properly reluctant to experiment on a commercial scale with what may be considered a satisfactory operation.

Future Outlook on Processing Methods

Major new developments of broad and fundamental nature occur only infrequently. The fluid catalyst principle is one of these fundamental advances. It represents not only a major contribution in the field of catalytic cracking and hydrocarbon synthesis but in addition is a chemical engineering tool obviously destined for important new applications. Current examples of other projects involving fluid techniques are the handling of Fischer-Tropsch iron catalysts; experimental work in retorting of Colorado oil shales; and the manufacture of phthalic anhydride. Undoubtedly, oil processing in the future will see many other new uses for fluidized or fluidized moving-bed catalytic processes.

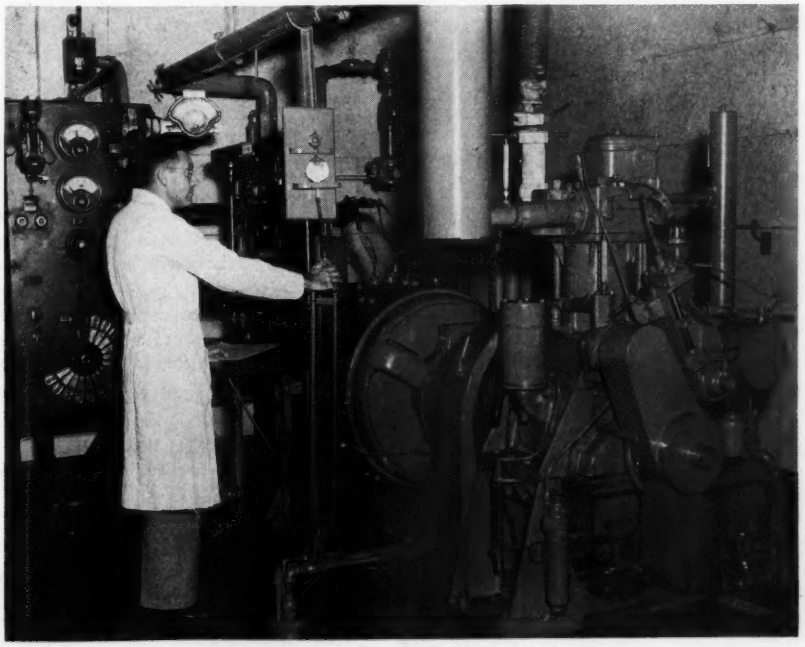
With heavy oil reserves such as represented by California's Santa Maria basin crudes or Canada's Athabaska tar sands, a combination of coking and mild hydrogenation may well become increasingly important. Such a combination also appears to be ideally suited to future refining of shale oil. Fractions from straight run distillation, as well as from cracking operations when charging these stocks are not of good quality. Sulfur, nitrogen and other compounds present render conventional refining methods difficult. Processing by coking tends to segregate the organic metallic constituents which are present into the residue. These impurities are exemplified by the vanadium compounds present in Santa Maria and many other crudes, and in Colorado shale oil. Heavy distillates such as charged to catalytic cracking operations may contain only small percentages through entrainment, but these are deposited on the cracking catalyst and bring about undesirable changes which effect product distribution. Further processing of the coke still distillates by hydrogenation removes sulfur and nitrogen compounds. These overhead distillates, after mild hydrogenation, are adaptable to conventional refining and thereupon yield high quality gasoline, diesel fuel and other products.

Coking also may be expected to receive incentive from other considerations, notably the tendency for increasing use of light fuels and decreasing markets for heavy residual oils. There are several basic reasons for this. New gas transmission lines are making natural gas available for industrial and domestic uses formerly supplied by fuel oil. An increasing number of ships are being bunkered by lower cost residual fuel from the Middle East fields. The dieselization of American railroads is also reducing the total amount of fuel oil consumed because of markedly better fuel utilization. For example, a diesel railroad locomotive may burn only 20% as much fuel as an old-type steam engine.

Non-regenerative catalytic processes will undoubtedly receive more consideration in the near future. Methods for reforming low octane naphthas have already been publicized.

The petro-chemical industries are bringing about plant-scale production of pure substances from petroleum. Most refineries now recover for further processing or blending such pure hydrocarbons as propane, isobutane, normal butane, butylenes, isopetane, and normal pentane. Some plants also produce pure hydrocarbons lighter or heavier than these. Ethylene and propylene are commonly produced for charge stock to chemical plants. Such new processes as hypersorption, which involves a moving bed of activated charcoal and separates molecules by the charcoal's ability to adsorb heavy hydrocarbons to a greater degree than lighter ones, will see increasing applications for separating the lighter materials

(Continued on Page 34)



Service Testing a New Diesel Engine Lubricant.

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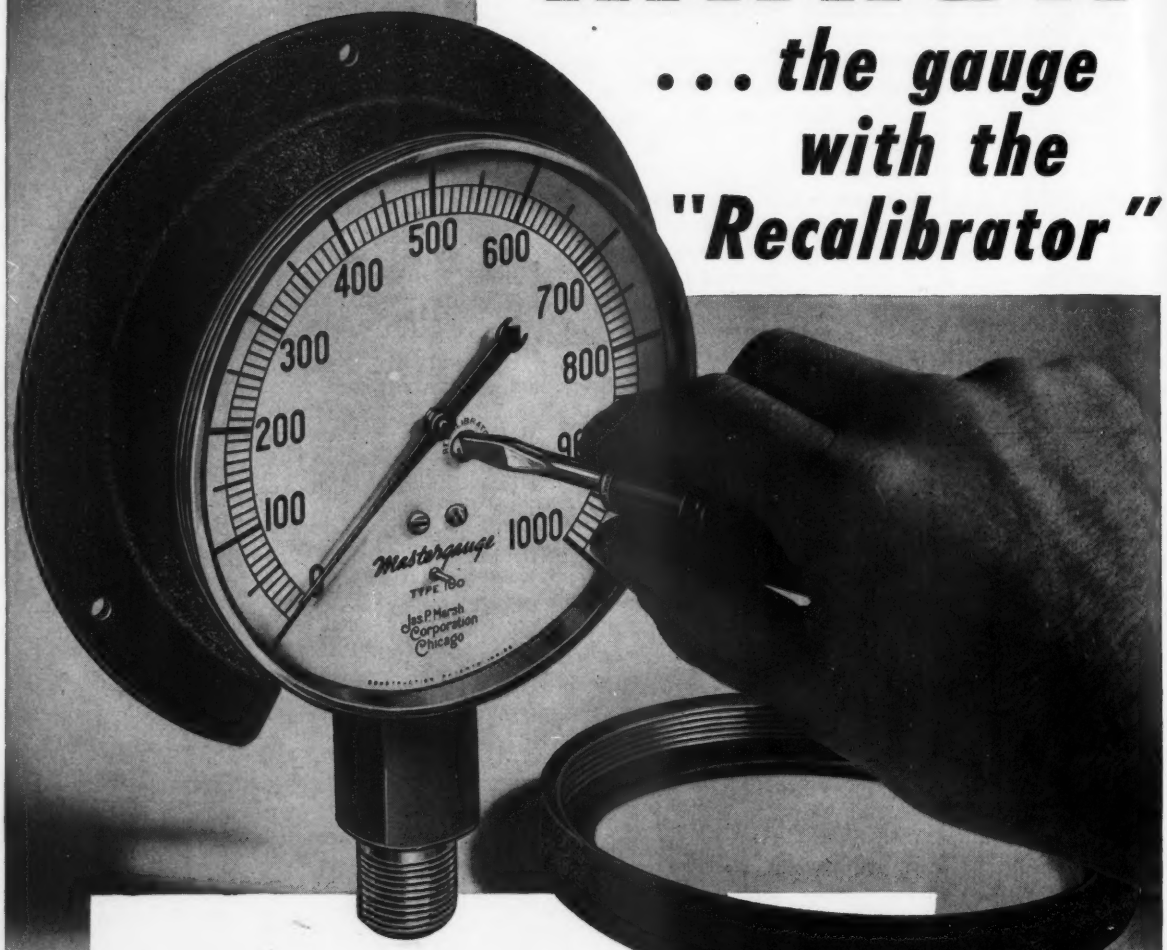

Any pressure gauge can be knocked out of adjustment, but when it's a Marsh Gauge you can quickly correct it with the twist of the "Recalibrator" screw.

This is not only the handiest way to correct a gauge; it is also the best way. Conventional methods of adjustment simply compensate for the error. The "Recalibrator" corrects the relationship between the movement and the bourdon tube—actually *does re-calibrate* the gauge.

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Kern County OIL NEWS

SOMEBODY IN THE JOKE DEPARTMENT used our "predictions to come", so we are going to be a little more careful about guesstimating anything on the Ides of March or any other month. At the same time this month past we did break even on demand, supply, curtailment and price of crude.

FROM WHERE WE DRILL the most exciting coring comes from the Courthouse where the oil taxwigs have cut off a million dollars in government costs as of the preliminary budget May 1st, with six weeks to go for the June final. Some of the taxperts overtrained a little in one stanza cutting out their own budgetary needs. Such is life in Kerntax County.

JACK WOTHERBY has a good gadget that makes it easy to trim his lawn where it meets and overruns the sidewalk . . . best we have seen yet . . . single disk formation with a couple of wooden rollers on either side . . . UEG (uses elbow grease) RPM helps the rollers and Jack too.

PAUL PAINE one of the four "macs" of the FORMAX OIL COMPANY, and a consultant of no little note was the principal speaker before the San Joaquin Geologist Society last month and was also a record attendance getter. He "papered" on "Valuation of Oil Properties" but his oral remarks and adlibing won the hearts of his listeners to the extent he should be especially featured in a story under his byline in COW.

FOUR METHODS OF VALUATING property stood out in our recollection as simple, reasonable and sane approaches to the endeavor. VOLUMETRIC, LEGAL, COMPARATIVE, and RULE OF THUMB. Computation of an oil company stock was illuminating . . . what amount is payable in dividends per barrel? . . . Some companies pay $1.72 . . . others $0.7 cents. Our list shows as we heard it: Richfield $.88, Sinclair .61, Gulf .21 and TWA .18 Royalty companies and owner type make the difference, according to our informer. A nice piece and price for oil land is also based on a lease for 1000 bbls. per year per acre.

KERNOILWIGS are happy to know that nothing this year will be done about the 27½ percent depletion. Joyful to know that no legislation either in the legislature or congress will be effective revelent to production control. Saddened, however, are they for other years ahead which are bound to make something happen to develop revenue . . . for everyone but themselves.

YOU CANNOT BE HURT too much if you give up something which you never had. So think the explorationists who get wildcat happy and inspired by the 27½ (Government doesn't give this up . . . it is taken off by the producer.) depletion allowable for taxes. Speaking of that reminds us that one "beeg won" the van Sicklen No. 45 has been abandoned after 800 hours of effort. This VEW . . . (very expensive well) . . . ran into everything the library of books could throw at it . . . mechanical . . . fishing . . . cementing and testing trials and tribulations.

BOB RIST geologist scout of statewide fame is attending the A.A.P.G. national in Chicago. . . . but rumored to have arranged a honeymoon along with it.

UP FROM LOS ANGELES were oilwigs W. W. ALVING of Gee Pee; W. N. BEADLE, Byron Jackson; W. WORTH BERNARD, Braun & Company; F. C. BLACK, GP; HARTE BURNETTE, of the same firm; L. D'AUBY, Richfield Oil Corporation; to attend a San Joaquin Valley Airplane Junket . . . landed at Kern Airport, breakfasted

"HOW TO EVALUATE OIL PROPERTY" is an "eternal angle" affording first class interest to any 1950 oilwig. So PAUL PAINE the famous Consultant, a director of the Kern County Land Company and one of the FOUR MAC's of Formax Oil Company gave some examples in practical treatment. KEN KRAMMES, of Texaco, Secretary of the SAN JOAQUIN GEOLOGICAL SOCIETY at its regular meeting asks for more syllogisms.

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at Stockdale with Champagne and Beefsteak . . . visited Visalia, Tulare and wound up with a barbecue in Fresno. All in a day's run with business men and Los Angeles chamberwigs.

ROY E. BLACK came to Richfield as Geologist this past month and Kern County Oil News extends a hand of welcome to former Bellflower oilman and his family which came with him to Kern and God's country.

WILLIAM J. ROOST also came to Richfield up from Long Beach and the welcome mat is rolled out for him as chief clerk of the Gas Division.

CIVIL ENGINEER for Richfield is a newcomer too . . . JAMES H. SHARPLESS from Long Beach. "Howdy oilwig . . ." Welcome to Kern.

MILLIARD I. FILLMORE is employed now with Oil Well Drilling Company and he comes from faraway places . . . Aberdeen, Washington.

TO OILDALE ONE WEEK last month ago came ARTHUR O. SPAULDING to work for Shell Oil Company. Also with ART are Mrs. Arthur and MIMI and little ART . . . O yes and LAURIE.

OHIO OIL COMPANY added JAMES B. EOFF to its payroll too,

PRECISION INDUSTRIAL INCORPORATED is the name of the well known oilfield service industry. Rebuilders of heavy engines and contractors for machine work, the firm owner RUTTER ARMEY has more plans for making the plant the finest in Kern County. Proof of activity is shown here with the Manager C. H. LINNENBROKER, standing along side MAX WEDDING, shop foreman, and BARNEY FIKE. Lower engine bloc handlers are MAYNARD RIDLON, HOWARD FINCHER, CORNELIUS KOKER, and VESTER CATLETT who will match their "knowhow" with all comers . . . it says here.

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To fill this need, Standard of California recently completed a plant which refines excellent wax from petroleum. The plant cost $3,500,000; the money came out of earnings—or profits—and here's what it meant to you:

Better protected and packaged products, of course. More jobs for construction workers in building the plant; steady employment for the men who work in it today. More sales for small businesses because the money paid to the workers involved has naturally spread to the grocer, the department store, the doctor and every other business and profession.

This is one example—a 3½ million dollar example—of how earnings are put to work and keep our economy running. There are many others, for Standard of California has spent more than $500,000,000 just since the war for plants and facilities to serve you better.

STANDARD OIL COMPANY OF CALIFORNIA

plans ahead to serve you better

•

and the Bakersfield Refinery put on extra payroll additions by adding the one we met, JEFF RHEA.

WENT OUT TO see how the oil business is doing in Kern and found that Richfield activity continues as ever. RAY ARNETT was latest addition . . . Cuyama is trying to decide on a townsite . . . BOB MC NEILL went to work for Shell . . . came from Ventura . . . Union Oil added Clifford A. Henderson from Santa Maria. Art Shafer is with International Cementers as of April. BEST BAROMETER WE COULD FIND FOR "How's Business."

WHEN SOMETHING HAPPENS to somebody like a barbecue or an annual celebration it always makes news. So one Sunday a few days ago when over ten thousand sportsmen went to Hart Memorial Park with oilwigs predominating the attendance, OILFIELDS TRUCKING planned and held a small party at the same time and over 800 friends attended the shindig according to HARRY PHOENIX. Over a 150 were employees and the whole affair was a great tribute to the fast expanding concern and one of Kern County's own.

IN A FEW DAYS the Kurth Battery which makes the best batteries right here in Kern is being feted by a county wide Roundtable for its recognition under the sun . . . a Billion Dollars worth of it. If everyone of Kern's own would meet together in an industrial testimonial it would form the greatest chow line in the world for a home-owned celebration . . . for a city the size of Bakersfield.

OIL PRODUCERS IN KERN asked us about the amount of by products used on state and county highways. Report reveals that Kern is getting its share very substantially and in proportion a little bit more at times. State Highway Commission seems to know this helps tight crude situation. About fifteen years ago . . . if our memory serves us . . . Kern was only getting about 29% of its share. Thanx to a member from Kern on the board who helped point this out . . . none other than our friend HARRY A. HOPKINS. Add his name to the tax hatchet brigade doing a good job 1950.

BLAZING NEW TRAILS SINCE 1920

OILFIELDS TRUCKING CO.

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PIONEERS IN PETROLEUM & OIL WELL EQUIPMENT TRANSPORTATION

WESLEY F. WALDON well known contractor to Kern Oilmen sold his California Hot Springs resort and will be in closer touch now with the oilfield needs.

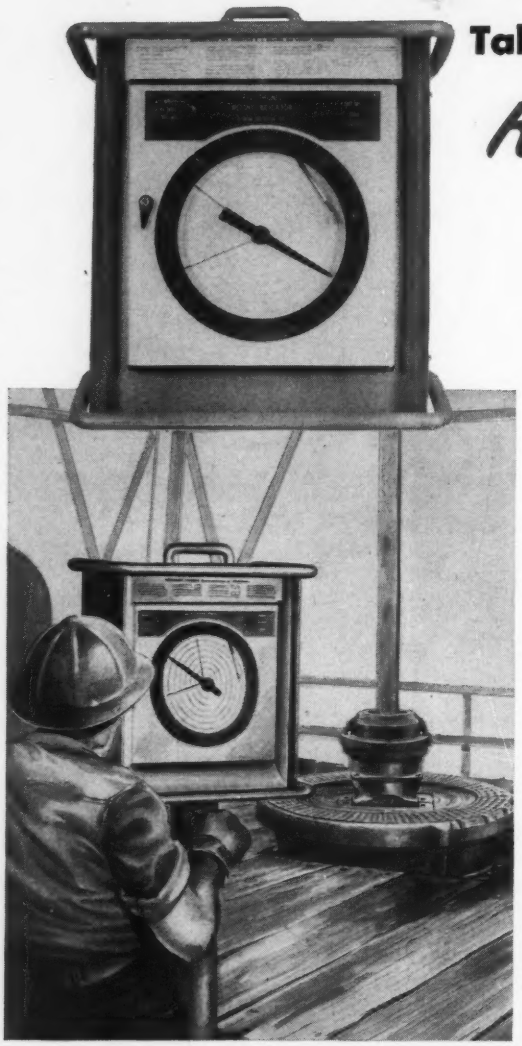
FIFTY YEARS AGO, according to local "Californian" an oil lamp explosion injured a Mrs. C. J. OSWALD of this city.

FORTY YEARS AGO Clarence Berry . . . Berry Oil Company . . . was reported to have bet twenty five grand on Jim Jeffries . . . it says here in its files from the Californian.

BAKERSFIELD had 22,000 people twenty years ago but its greater area today relates that a hundred thousand has been added since. One thing certain is that the county as a whole has grown up to a quarter of a million people and things are happening accordingly.

WHEN YOU READ THIS the 34th barbecue will have been es-

BJ NEW weight indicator



Takes Accurate Bit Load Readings

RIGHT WHERE LOAD on the BIT OCCURS!

THIS NEW BJ Electronic Weight Indicator indicates and records weight on bit from a pick-up located at the swivel bail adapter—*right where control load on the bit occurs!* Indications are entirely unaffected by deadline whip, sheave friction or similar variables. *Any movement of the indicator reflects an actual change in weight on bit—a vitally important point in accurate drilling control.*

The new BJ Weight Indicator reads directly in thousands of pounds, and provides both weight on bit and total load indications and recordings. It gives your driller the vital information he needs to efficiently drill better wells at less cost.

For accuracy you can count on...for simplified installation...for trouble-free operation...for space-saving compactness...it will pay you to investigate the new BJ Electronic Weight Indicator today. See your nearby BJ representative—or write for bulletin giving full details.

BJ *MEANS ENGINEERED OIL TOOLS*

Byron Jackson Co.

Since 1872

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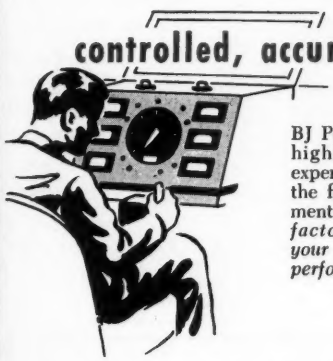
STOCKING JOBBERS ALL PRINCIPAL OIL FIELDS

BJ SERVICE gives you these plus advantages

deeper, cleaner penetration

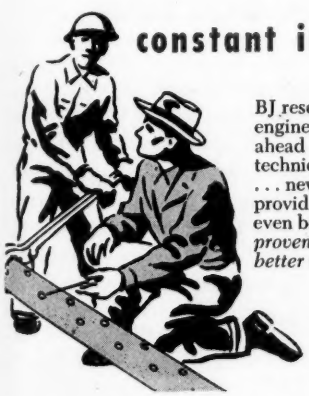
The Perfo-Jet charge gives you larger, cleaner perforations for better production because the jet formed by the conically shaped charge reaches deeper into the zone.

controlled, accurate shooting



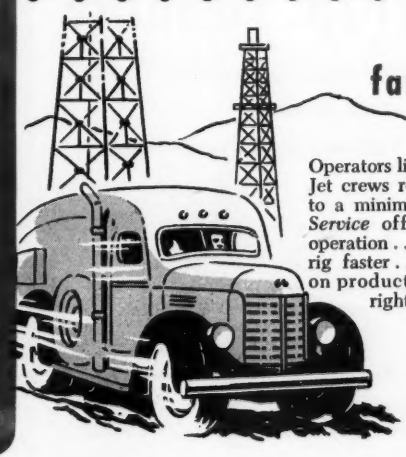
BJ Perfo-Jet crews are more highly trained, have *more* experience. And they operate the finest perforating equipment in the field. *These two factors combine to protect your well investment on any perforating work.*

constant improvement



BJ research and development engineers continually work ahead on new methods, new techniques, new equipment . . . new ways and means to provide proven methods for even better perforating. *These proven developments insure better results for the industry.*

fast service



Operators like the way Perfo-Jet crews reduce down time to a minimum. *BJ Perfo-Jet Service* offers streamlined operation . . . on and off your rig faster . . . puts your well on production faster. Do it right the first time . . .

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Perfo-Jet

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SAN JOAQUIN VALLEY: Phone Bakersfield 2-5911;
COASTAL DISTRICTS: Phone (Los Angeles) JE 2596

tablished . . . but the first for the API. Golf has been added to the affair this first time.

FIRST FLOWING WELL in the Kern district came in fifty years ago April 29, 1900 and known as San Joaquin Company's No. 5 on Sec. 5, 29-28.

WEDDING BELLS will ring in September for RICHARD ANDREW PEREZ of the Richfield Oil Corporation, when he leads Miss Dortha McDaniel to the alter.

KERN COUNTY OILFOLKS are planning an official tour to Mexico and Guatemala in August. At the same time almost, a group of oil people are going to Hawaii . . . both tours are Kern Officially sponsored.

CECIL T. JONES, executive vee pee Gundlach Plumbing and VP EI Tejon Hotel left for Europe with his family. Mr. Jones is also leader in political science in theory as well as in practical ways. He also heads up Kern's greatest civic organization the Kern Chamber.

KERN IS TO GET over a million and a half gas tax funds and "in lieu of taxes" or motor vehicle registration tax or fees. By the way there are over a hundred thousand motor vehicles registered in Kern . . . not counting those running around here from Los Angeles and other areas.

WHEN YOU DRIVE BY LEBEC again you can think of two things . . . the Lebec Oak has been visited by the doctor who performed a minor operation on a major ailment. Instead of using a silver plate a little cementing was made. Number two . . . the Florafaunium right at Lebec will be purchased by the County Museum and brought into the county seat.

ROBERT WAYNE HORTON of Standard Oil of California at Coalinga took DELORES ANN McCLINTOCK for better or worse and made the solemn vows at the Wee Kirk o' the Heather in Las Vegas early last month.

STILL SENDING FOLKS TO WASHINGTON according to comparisons today and fifty years ago. A half century ago it was reported here, that the Petroleum Miners Association Branch of Bakersfield was discussing the sending of a representative to "DC".

OILMEN MAY NOW BUY the famous San Joaquin straw hat . . a genuine panama variety made for Kern Oilwigs especially. Recently Governor Earl Warren was presented one at the (Oilmen's) Fish and Game Barbecue. Told to wear it in the San Joaquin Valley as a "straw" vote getter until election.

APPRECIATED last month was that nice plug for the K C O News section by goodfriend BILL BARBAT of San Francisco's S.O.C.C. facility. Last time we heard from Bill he was something like assistant chief geologist paleontologist for Standard of California.

SPEAKING OF STRAW HATS Sacramento jumped the gun on Kern which jumps the gun on Los Angeles, and held strawhat day April 29. Oilwigs here jump all guns when they buy last year's straw at half price at season's end . . . save it for the next season . . . good as new. Leave it to the oilwags.

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   b) By testing only when there is something to test
2. Tangible Direct Evidence of oil and gas formations under all conditions—"when you can't tell from the electric log"
3. Continuous Gas Check for
   a) Positive identification of gas sands—including small ones
   b) Blow-out Protection
   c) Structural evidence—it helps in evaluating the prospects of a wild cat "further down."
4. Permeability information in Interpretive Log based on "Jetting Lag."
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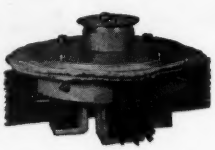
THE CAVINS BRIDGING PLUG . . . for use in combination with the CEMENT DUMP BOTTOM, is ideal for use in starting an off-bottom bridge or plug. Made of drillable material, can be used for temporary or permanent installations.



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Field Development

Los Angeles Basin

Cajon Pass Wildcat Works

O. H. R. O. Oil Company's Ono No. 1 wildcat on Sec. 18-1n-4w is ready to run casing to a point above bottom at 1712 ft. A test failed when packer did not hold. Herbert Myers' Fuqua No. 1 on Sec. 1-3s-8w in the Chino Hills is digging at 4115 ft.

Palmdale Try Drills

Digging has reached a depth of 700 ft. in the Raymond D. Weller No. 1 wildcat well on Sec. 5-5n-12w in the Palmdale area.

Newhall Try Bails

Bailing was the latest report from the W. S. Bush and Ben Hur Refining Company Perkins No. 1 test on Sec. 11-3n-16w at Newhall. R. W. Sherman, Operator, is swabbing and otherwise working with Newhall Comm. No. 3-1 on Sec. 2-3n-16w. Redrilled depth is 5687 ft., with plug at 5669 ft.

Del Valle Well Begins

Southern California Petroleum and Trigood are about to spud their SCP-Barbour No. 1 on Sec. 16-4n-17w in the Del Valle area. Drill site is 145 ft. south and 400 ft. east of Southern California Petroleum's Kinler No. 1 producer.

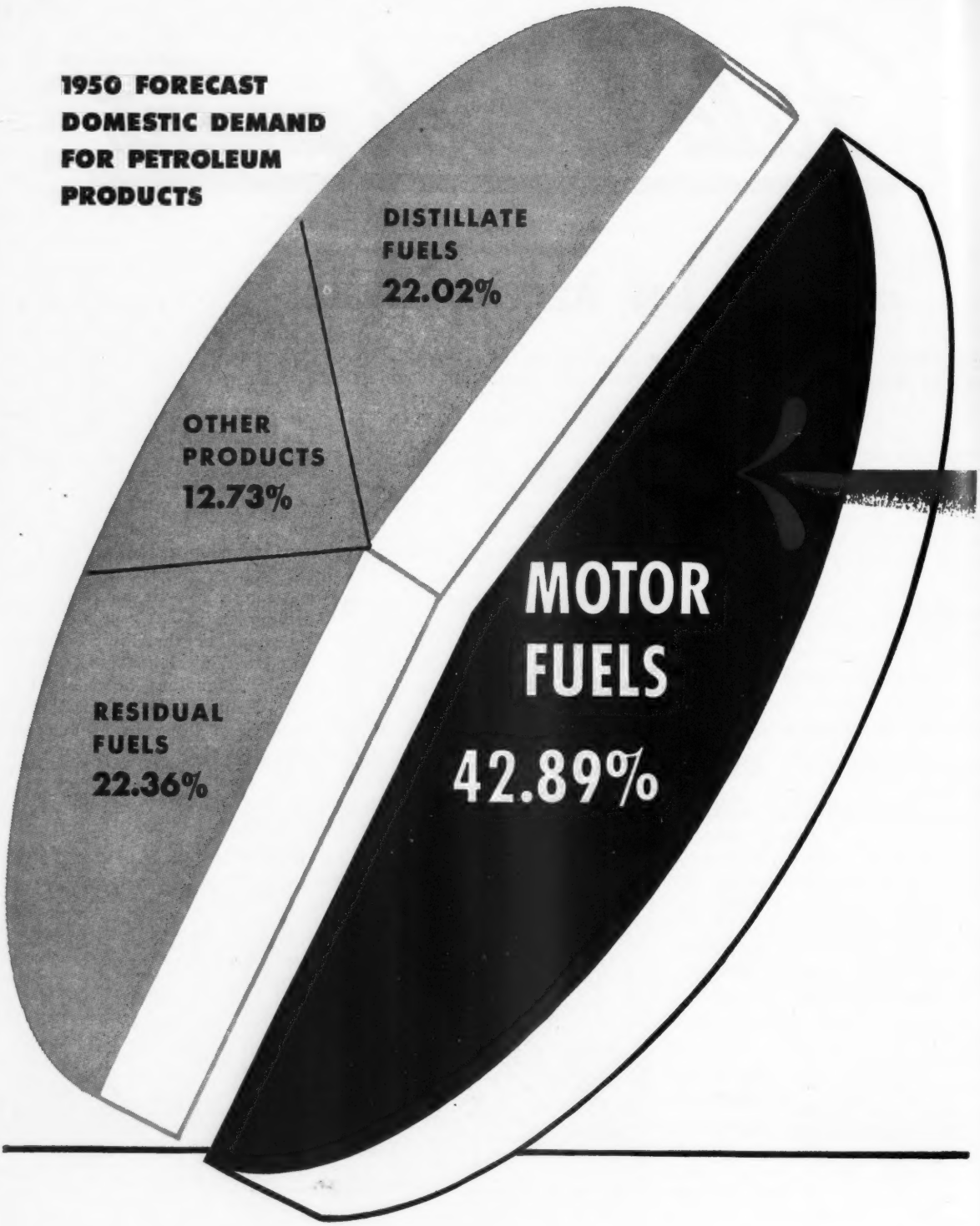
Castaic Try Digs

In the Oak Ridge sector of the Castaic area, Bolsa Chica Oil Corporation's Kinler No. 43-18 on Sec. 18-5n-16w is drilling below 700 ft. Location is about a quarter of a mile south of the T. & M. well which was completed a couple of months ago as a discovery. This well came in from 2372 ft. for about 25 barrels of 40 gravity oil a day. Several operating organizations have taken leases in the area, with Union Oil probably the largest property holder there. Bolsa Chica, incidentally, apparently is bent on entering the oil development picture in Oklahoma. Rumors circulating for some weeks in the Los Angeles area indicated the company was working towards an agreement with Superior Oil for 30 locations on a substantial farmout in the Ringwood field, Major County, Oklahoma.

Sylmar Try Digs

Robert S. Lytle, Operator continues to drill ahead at 7900 ft. in silty shale streaked with sand in D.B.L. Stetson-Sombrero No. 1 wildcat on Sec. 21-3n-15w at Sylmar. The project is sponsored by a partnership made up of Lytle, the Doheny interests and the Battson family. Lytle, individually, is drilling at 6000 ft. with a well on the flank of the Pierce Junction field, within sight of Glenn McCarthy's fabulous hotel at Houston. Held under lease are 270 acres adjacent to properties producing for McCarthy.

St. Anthony Oil Corp.'s Farwell No. 2 Well in the Santa Fe Springs Field. Left to right: Roger M. Minnis, Superintendent; E. H. Walton, Head Well Puller; S. M. Queen, Floorman; J. M. Roberts, Floorman; and B. Pittman, Derrickman.


1950 FORECAST
DOMESTIC DEMAND
FOR PETROLEUM
PRODUCTS
DISTILLATE
FUELS
22.02%
OTHER
PRODUCTS
12.73%
RESIDUAL
FUELS
22.36%
MOTOR
FUELS
42.89%

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Long Beach Test Drills

In the Long Beach area, R. W. Jerman and F. R. Bartee are drilling their Webb No. 1 test on Sec. 33-4s-12w below 3100 feet. The derrick stands near 15th street.

Castaic Try Drills

In the new Castaic Junction field. Humble Oil's N. L. & F. No. 2 on Sec. 14-4n-17w is making hole at 8640 ft. At Castaic, Macson Oil's Radovich No. 1 test on Sec. 26-5n-17w is making hole through the shallower formations.

Oak Canyon Well Drills

Drilling is going forward at 4800 ft. in the Western Gulf Lechler No. 5 on Sec. 31-5n-17w in the Oak Canyon area of Los Angeles County.

Del Valle Test Deep

Havenstrite Oil Company's interesting deep test well in the Del Valle area is down 13,050 ft. It is Lincoln No. 16 on Sec. 16-4n-17w. Standard Oil's Sepulveda No. 12 on Sec. 17-4n-17w is drilling at 2450 ft.

Haskell Try Idle

Drilling has been suspended at 1893 ft. in the George H. Urich Burger No. 1 exploratory well on Sec. 36-5n-16w in the Haskell Canyon area, Los Angeles County.

Aliso Canyon Project Fails

Mission-Adrian No. 2, drilled by Union Oil Company on Sec. 34-3n-16w at Aliso Canyon, has faded into history. The project bottomed at 7580 ft. and failed to produce commercially.

Calabasas Wildcat Digs

Trower & Trower has resumed operations with cable tools at 1550 ft. with No. 1 test on Sec. 32-1n-17w in the Calabasas area of Los Angeles County.

Orange County Wildcat Starts

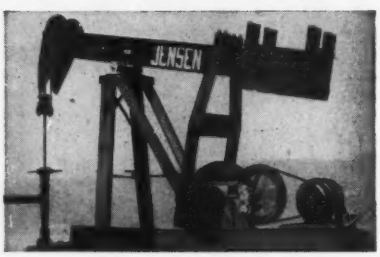
Wildcat territory two miles north of the Huntington Beach field is the site of a new well initiated under the banner of Shell Oil. Known as No. 55-23, the well is in the Meadowlark area on Sec. 23-5s-11w, Orange County. At Buena Park, Humble Oil's Buena Park Unit No. 1 on Sec. 36-3s-11w is drilling in hard brown shale at 9640 ft.

Sand Canyon Venture Idle

Idle temporarily at 3244 ft. is the last word from the Fisher Lease, Inc., Fisher No. 1 on Sec. 2-3n-15w at Sand Canyon in Los Angeles County.

Rosecrans Try Staked

Holliday & Meeker has staked location for Livingston No. 1 a test on Sec. 12-3s-14w near Halldale avenue and 120th street in the Rosecrans area.



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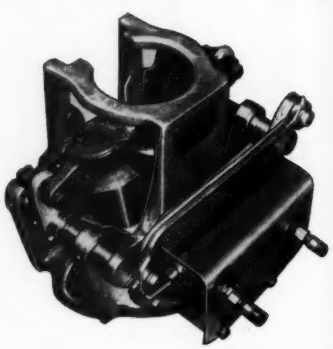

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San Joaquin Valley

Cuyama Valley Work Developing

Richfield Oil has relegated to history its Apache Unit No. 1 in the Ventucopa sector of Cuyama Valley on Sec. 22-8n-24w, Ventura County. The project went by the board following a formation trial of 10,026 ft. and plug at 10,200 ft. Recovery on the test was nothing more than mud. The project bottomed at 10,563 ft. Cleaned out, Hancock Oil's Hancock-Oceanic No. 65-10 on Sec. 10-11n-28w at North Cuyama is back on the pump for an unestimated yield from 2492 ft. Southern California Petroleum's Shlaudeman No. 81-10 on Sec. 10-11n-28w is drilling below 5000 ft. Superior Oil's Government No. 17-2 on Sec. 2-11n-28w has reached 4500 ft. Universal Consolidated continues to punch downward at 8240 ft. with its SM-Humble No. 1 on Sec. 24-32s-19e. At the eastern end of the valley, Independent Exploration has abandoned its Stubblefield No. 71-29 on Sec. 29-10n-24w. The project bottomed in gray sand at 2459 ft. In recent months, two prior tests on the Stubblefield Ranch have been dusters. Texas Company drilled to 3994 ft. and R. B. Jackson to 2956 ft.

Tejon Well New Completion

In the Tejon-Reserve area, Drilling & Production Company has finished its J. V. No. 101-32 at 4758 ft. for an initial flow of two barrels of oil daily and 700,000 cubic ft. of gas. A redrilled hole, oil sand was topped at 4642 ft. The company's O.M.B. No. 137-33 on Sec. 33-11n-19w has been completed at a redrilled depth of 4570 ft. At last reports, the well was flowing clean oil in a satisfactory manner.

McVan Well Reworking

Ross O. Nelson of Hermosa Beach has taken over the Fitzhugh No. 2 well on Sec. 14-27s-27e in the McVan sector of the Poso Creek area. Originally drilled to 1873 ft. by General Drilling Company, the well was completed in August, 1947, for an estimated 35 barrels a day, cutting 50 per cent, from the interval of 1136-1160 ft. The new operator plans to drill out plug at 1160 ft. and seek production in the Olcese expected between 1880 and 1920 ft.

Coalinga Well Good

Completed on the gas lift, Universal Consolidated's Binkley No. 6 on Sec. 24-20s-15e in the Coalinga Nose area is putting out 295 barrels of net 30 gravity oil a day. Total depth is 7795 ft., with top of the Gatchell oil sand at 7758 ft.

Painted Rock Wildcat Quits

Bottomed at 8325 ft. in hard, sandy shale, Texas Company's Blakey No. 1 on the Painted Rock anticline in Sec. 16-32s-20e, San Luis Obispo County, has been abandoned. An electric log run preceded decision to write the project off.

Gosford Well In

Superior Oil's Edgar No. 43-24 on Sec. 24-30s-26e in the Gosford area has been finaled at 7994 ft. for 100 barrels a day through an 8/64-in. bean. Open interval is 7487-7515 ft.

Dominion Test Fails

Vedder topped at 670 ft. was gray and barren and consequently Arthur C. Fisher and J. H. Maurer have abandoned their Jean No. 7 on Section 15-26s-28e in the Dominion area. Total depth was 751 ft.

Mountain View Well Completed

Wood-Callahan Oil Company has finaled its F. & S. No. 1-A on Sec. 30-30s-29e in the Mountain View field for 210 barrels a day from 5192 ft. Initial cut was 27 per cent. The company's Ring No. 1 on the section is down 4942 ft., after going through a fault around 4600 ft. Consideration is being given to the next operational move.

Hathaway Oil Co.'s rig drilling Springs No. 6 in the Santa Fe Springs Field. Left to right: W. M. Smith, Cathead; C. S. Calderwood, Lead Tong; M. A. Holder, Derrickman; Floyd Preston, Driller; and E. R. Campbell, Racker.

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Harvester Test Drills

Slightly less than a mile southeast of its recent gas discovery in the Harvester area of Kings County, Shell Oil is testing a follow-up well at a plugged depth of 2797 ft. on Sec. 13-23s-21e. The new project is known as Mortgage Service Co. No. 1. Shell found the new gas supplies last February with its Harvester Unit No. 1, which is about nine miles northwest of the Trico field. In the Hanford area, Goshen Syndicate is ready to drill Drummonds Union No. 1 test on Sec. 36-18s-22e. Barnsdall Oil at last reports was still fishing drill pipe lost in its Lynch-Mauren No. 88-9 on Sec. 9-23s-17e at Reef Ridge. The top of fish is placed at 8255 ft., with present depth of the well 8841 ft.

Edison Try Quits

Bottomed at 1762 ft. in gray sand, So-Hi Oil Company's So-Hi No. 1 wildcat on Sec. 8-30s-30e in the Edison area has been written off as an oil failure.

Raisin City Wildcat Starts

von Glahn Oil Company has commenced work on its No. 61-A test on Sec. 24-15s-17e in the Raisin City area, Fresno County. In the Guijarral Hills area. Barnsdall Oil's Dessel No. 41-2-19 on Sec. 2-21s-16e is drilling and and coring at 10,200 ft. L. B. Armstrong & Associates' No. 1 wildcat on Sec. 30-15s-17e in the San Joaquin area is digging on down at 2965 ft. Superior Oil's Crowell No. 38-34 on Sec. 34-20s-16e at Coalinga is drilling at 5180 ft.

Comanche Pt. Tests Drill

Drilling is continuing below 1500 ft. in the LeRoy C. Gould Tejon No. 31-1 on Sec. 31-32s-30e in the Comanche Point area. R. E. Bering's Tejon No. 1 on Sec. 18-32s-30e is making hole ahead at 1550 ft.

Famosa Try Digs

Atlantic Oil Company is drilling at 760 ft. with its Del Fortuna No. 1 test on Sec. 21-26s-26e in the Famosa area, Kern County. The project is aimed for production in sands comparable to those giving up oil in the Premier field to the southeast.

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Round Mtn. Wildcat Quits

Arthur C. Fisher, J. H. Maurer and Frank Barton have abandoned their F.M.B. Cauzza No. 1 exploratory well in the Round Mountain area. Drilling came to a halt in gray Vedder sand at 1748 ft.

Mojave Test Cements Pipe

The 10-in. casing has been cemented at a depth of 500 ft. in Paul Beamer's Oswald No. 1 on Sec. 12-11n-12w in the Mojave area, Kern County. Present depth of the test is 850 ft.

Washington Oil Combed

Prospecting for new oil so far in the state of Washington has not been of great encouragement. Union Oil Company's State No. 3 in the Ocean City area evidently is producing 15 barrels of oil a day long with a little natural gas. Bottomed at 9344 ft., the venture underwent conventional trials at several levels. Fourteen exploratory wells have been drilled in the state during the past two years. They indicated tight formations, a lack of proper reservoir sands and intense folding, according to field men.

Fourdeer Well Digs

On Sec. 4-8n-33w in the Fourdeer field, Sunray Oil Corporation's current drilling job there has reached 1720 ft. and is going deeper. The well is Los Flores No. 14.

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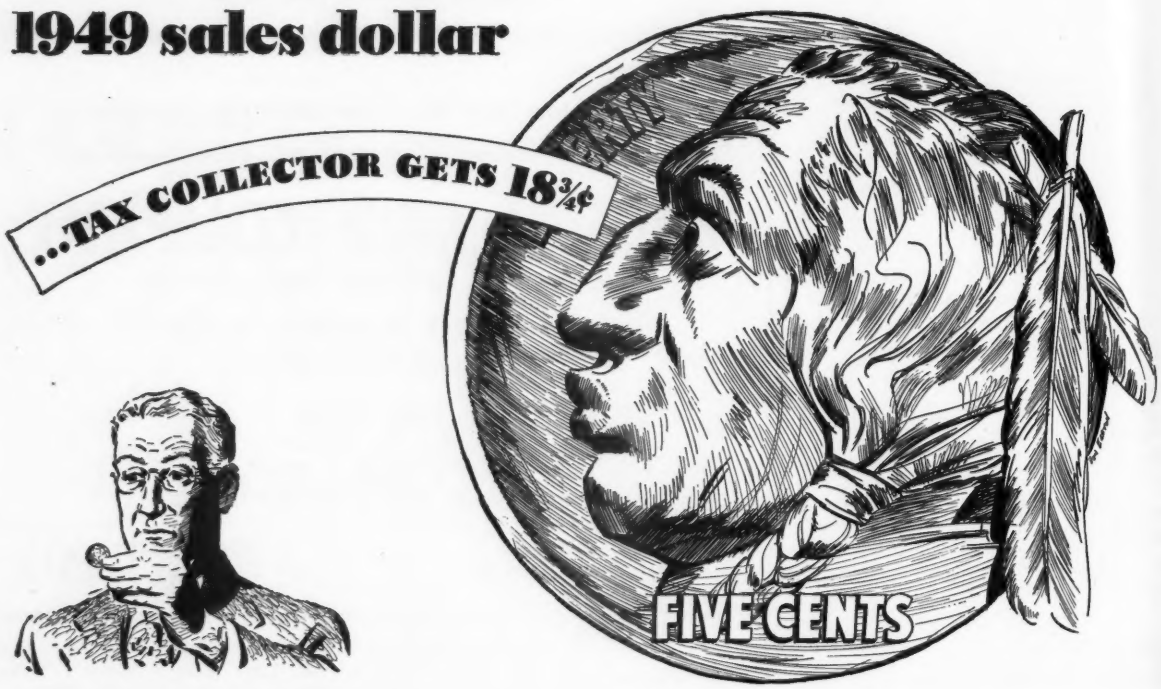
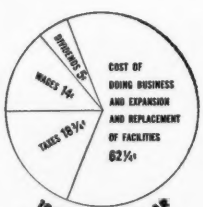
Stockholders get 5¢ from each Union Oil 1949 sales dollar



1. Out of every dollar paid in by Union Oil customers during 1949 the company made a profit of 8¼¢. 3¼¢ of this was put into expanded facilities to meet the growing demand for petroleum products in the West. 5¢ was paid out to the stockholders in dividends. Since these dividends were divided among 37,245 preferred and common stockholders, the payments averaged $315 per stockholder.


DIVIDENDS 5¢
WAGES 14¢
TAXES 18¾¢
COST OF DOING BUSINESS AND EXPANSION AND REPLACEMENT OF FACILITIES 62¼¢
1949 SALES DOLLAR

2. Out of every dollar paid in by Union Oil customers during 1949 the employees received 14¢ in wages, pensions and other employee benefits. Since these wages and benefits were divided among 7,316 employees, they averaged about $4,700 per employee.

3. Out of every dollar paid in by Union Oil customers during 1949 the federal, state and local tax collectors got 18¾¢*. So the tax collectors got almost 4 times as much money as the owners and 1 1/3 times as much as the employees.

*This figure represents taxes on all our products—fuel oils, asphalt, lube oil, greases and gasoline. When our customers buy *gasoline*, 31¢ of each dollar they spend goes to the tax collectors.

4. "Cost of Doing Business and Expansion and Replacement of Facilities" includes following:

Raw materials	26¼¢
Transportation	7¼¢
Supplies, power, exploration, selling expense, etc.	14¼¢
Interest	¾¢
Expansion and replacement of facilities	13¾¢
TOTAL	62¼¢

UNION OIL COMPANY

OF CALIFORNIA

INCORPORATED IN CALIFORNIA, OCTOBER 17, 1890

This series, sponsored by the people of Union Oil Company, is dedicated to a discussion of how and why American business functions. We hope you'll feel free to send in any suggestions or criticisms you have to offer. Write: The President, Union Oil Company, Union Oil Building, Los Angeles 17, Calif.

Coastal and Northern District

Tapo Canyon Wildcat Scene

New development interest has been taken on by Tapo Canyon in Ventura County, one of the oldest producing areas in the state. Mark D. Leff, president of Aeco Corporation of Beverly Hills, announces the acquisition of 800 acres spreading over portions of Secs. 13, 14 and 15-3n-18w. The lease is surrounded by fee land held by Union Oil and Pacific Western. On Sec. 13 in the Oak Ridge sector, John McQuaid recently opened a new pool with his Tapo No. 1 well. It went to only 542 ft. for an initial output of 41 barrels of 21.2 gravity oil daily on the pump. Location of the oil finder is between Torrey Canyon on the northwest, Simi on the south and Tapo Canyon on the north. Programmed for the property are several wells, with the first drilling job staked 50 ft. north and 470 ft. west from the McQuaid discovery.

Cache Slough Wildcat Digs

Standard Oil's Peter Cook No. 9 in the Cache Slough area of Solano County on Sec. 7-4n-3e is drilling at 5000 ft. On tests higher the project has responded with gas in quantity. The 7-in. pipe is set at 2433 ft. in George T. Cameron's Griffin No. 1 wildcat on Sec. 16-3n-2w in the Goodyear area. Present depth of the hole is 3208 ft. All trials to date have been encouraging.

Corning Job Digs

In the Corning gas field, Buttes Oilfields, Inc. is drilling at 1100 ft. with its Corning Comm. No. 1-B on Sec. 2-24n-3w. No. 1-C is a location on Sec. 1-24n-3w.

Arroyo Grande Wildcats Going

C. W. Colgrove has a brace of drilling jobs going in the Arroyo Grande area, San Luis Obispo County. Elberta No. 1-4 on Sec. 4-32s-13e is drilling at 1175 ft. Elberta No. 1-5 on Sec. 5-32s-13e is digging at 9920 ft.

Santa Ana Try Drills

On Sec. 19-4n-23w in the Santa Ana Valley of Ventura County, Bankline Oil Company's F. G. Dunshee No. 1 prospect job is drilling steadily ahead at 3800 ft.

Martinez Try Quits

Ardly Petroleum Company has pulled out of its Almond No. 2 on Sec. 31-2n-2w in the Martinez area of Contra Costa County. The hole bottomed at 3116 ft. is in blue shale.

Arbuckle Try Works

Conductor pipe is in for Standard of California's Arbuckle No. 2-1 test on Sec. 3-13n-2w at Arbuckle, Colusa County.

Arroyo Seco Wildcat Digs

Prospect drilling is below 2250 ft. in Humble Oil's C. N. Thorup No. 1 at Arroyo Seco on Sec. 21-19s-6e, Monterey County.

Rio Vista Test Fails

Plugged and abandoned at 4762 ft. was the ultimate fate of Brazos Oil & Gas Company's Elliott H. Wheeler No. 1 test on Sec. 23-3n-3e in the Rio Vista area, Sacramento County.

Santa Barbara Test Oil Failure

Seeking new oil sources in the Goleta area of Santa Barbara County, Yellowstone Oil Company drilled its Hollister No. Y-2 on Sec. 3-4n-29w to 1315 ft. without success and the project has been abandoned. At North Goleta, L. H. Cameron's Marty No. 1 wildcat is down around 700 ft. on Sec. 34-5n-29w. Lewis W. Welch's third wildcat test in the San Marcos area is digging at 5885 ft. The well, on Sec. 29-6n-29w, is called Lazy R. G. No. 3.

South Mtn. Try Staked

Shell Oil Company has staked location for Ben Schieferle' No. 1, a

Standard Oil Co. of Calif.'s Cahn No. 148 Well in the Lost Hills Field. Left to right: W. B. Bowlott, Cathead; K. T. Thompson, Lead Tong; Houser Downen, Racker; T. C. Lentz, Derrickman; and F. B. Mercer, Driller.

SAFE, SURE Liner Suspension

with the BOWEN LINER HANGER

Bowen Pack-Off Type Liner Hanger

THERE are a dozen ways to go wrong when completing a well—and one of the easiest is to install the liner *without proper attention to the method you use.* A badly set liner may collapse or sag. It may break or shift. Or it may stick when later attempts are made to remove it . . .

The answer, *SUSPEND your liners from the casing string with a Bowen Liner Hanger!* It is the safe, sure method of protecting against common liner troubles. A Bowen Liner Hanger is easy to set . . . easy to remove whenever required . . . and gives positive liner suspension in the well. What's more Bowen Hangers are available in special types to provide the advantages of liner *suspension* even on tough completion jobs . . .

For example: Bowen Liner Hangers are made in standard plain and pack-off types, as illustrated, for ordinary liner jobs. But—they are also available in:

1.—Hydraulically-set Types which operate **entirely without rotation** and give positive evidence at the surface that the liner is suspended in the well. Hydraulically-set Hangers permit hanging liners in slant or crooked holes . . . installing pre-packed gravel liners . . . hanging liners which must pass through a casing window . . . hanging liners that are exceptionally short or light in weight. In fact, wherever liner rotation is **not** desirable, Bowen has the Hydraulically-set Hanger for the job!

2.—Special Hangers designed for hard-to-set liners. Operators may find it necessary to rotate liners severely and work them up and down in order to locate them properly. For this, Bowen has developed special adapters and landing tools for use with the regular Hangers which permit safe, positive liner suspension under these conditions.

Your nearest Bowen Field Store stocks the Bowen Liner Hanger in a complete range of sizes and types for any completion job, and full details on this valuable production tool are yours for the asking. Call Bowen—day or night—at any of five convenient service stores in active California fields! Or write for the Bowen Catalog!

Bowen Hydraulically-set Liner Hanger

THE IDEAL LANDING TOOL for use with the Bowen Liner Hanger is the Bowen Releasing Spear. It is simple to operate and ruggedly built for all conditions of liner installation, and will "take" the full pulling capacity of the run-in string. It can be equipped with a stop collar for bumping down through tight spots . . . and can be used with jars for loosening stuck liners. Universally adaptable for all liner jobs. Ask for complete details!

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test well which probably will go deep on Sec. 16-3n-22w at South Mountain. Bolsa Chica Oil Corporation is understood to have about 300 acres a half mile from this location. Shell, meantime, has completed Calco-Schieferle No. 5 on Sec. 17-3n-20w for an initial output of 175 barrels a day from a plugged depth of 4800 ft. Total bottom is 4903 ft.

Ventura Avenue Tests Operating

Down 12,000 ft., Lloyd Corporation's No. S-1 on Sec. 19-3n-22w at Ventura Avenue has cemented casing at 11,997 ft. Los Nietos Company is making hole at 10,787 ft. with Fraser No. 88-14A on Sec. 14-3n-23w.

Simi Try Abandoned

At a total depth of 1820 ft., William E, Newell and Edward J. Latimer pulled out of their No. 1 test on Sec. 14-2n-18w in the Simi area, Ventura County.

Paso Robles Try Drilling

After running surface pipe to a point near 200 ft., Fairview Exploration Company is drilling on down below 600 ft. with its Fairview-Paso Robles No. 1 wildcat at Paso Robles, San Luis Obispo County. The derrick stands on Sec. 22-26s-12e.

Las Llajas Test Works

Spudded and drilling at an inconclusive level is Union Oil Company's Simi No. 12 explorer on Sec. 23-3n-17w in the Las Llajas area, Ventura County.

Rincon Job Tests

Down to a depth of 12,348 ft., Chanslor-Canfield Midway is testing its Hobson No. B-150 on Sec. 16-3n-24w in the Rincon field. Continental Oil's Hobson No. A-4 on Sec. 15-3n-24w at Padre Canyon is repairing equipment, with the hole at present down 6580 ft.

Santa Fe's Open Door freight policy

The shipper "pays the freight."

The more he ships, the more business we do.

That is basic railroad economics.

Every day we are exploring possibilities for the growth of freight traffic, which can build business for the Santa Fe through fair and reasonable transportation charges.

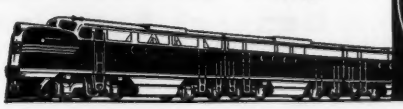
Our doors are always open to any shipper, large or small, who can help us serve his interests better in the matter of rates, car service and expediting the movement of freight shipments.

That is how the Santa Fe has grown—hand in hand with the people it serves.

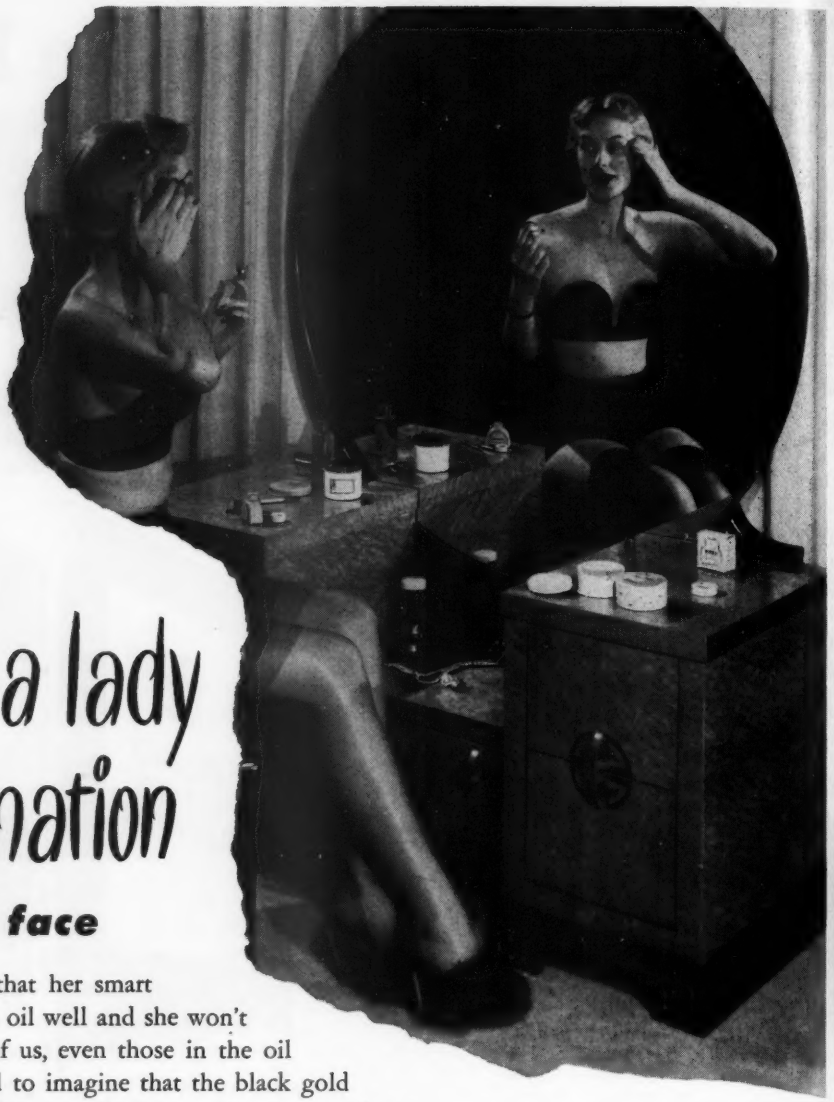
That is the way it is always going to be. Our general freight traffic officers and Santa Fe freight representatives throughout the United States, are always ready to meet with you on any freight problem.

F. H. Rockwell, *General Freight Traffic Mgr.*
Santa Fe System Lines, Chicago 4, Illinois

Santa Fe—*all the way*



Santa Fe



Oil helps a lady — or a nation

change her face

Tell a modern miss that her smart appearance came from an oil well and she won't believe you. Like most of us, even those in the oil industry, she finds it hard to imagine that the black gold of petroleum is an essential part of her cosmetics, her lovely nylon finery, of the hundreds of items from plastic shower curtains and brushes to the buttons and bows that help make her more beautiful.

So too with the nation. For its "face" has changed immeasurably due to the more than twelve hundred petroleum products which make possible the heat for our homes, the fabrics we wear, the medicines we depend upon, even the food we eat. Industry, transportation and agriculture as we know them today could not exist were it not for the petroleum-produced power and lubricants for their machines.

Our land without petroleum would be a nation without the comforts and conveniences of modern living. Through research and development, through the competitive system which has made the oil industry possible, improved and more economical products will yet come to make our lives more pleasant.

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Personalities IN THE NEWS

Curtis Advances at G.P.

James H. Curtis has been appointed Manager of Manufacturing of the General Petroleum Corporation, it has been announced by Gale L. Adams, Vice President and Director of Manufacturing.

James H. Curtis

This is the second advancement in fourteen months for Curtis who has been Manager of Refineries for General Petroleum since February 1949. Previous to that he had been in charge of the company's huge Torrance (Calif.) refinery.

Curtis, who lives at 724 Elvira St., Redondo Beach, Calif., came to General Petroleum in December 1942 from the Lummus Company where he had been a process engineer in charge of setting up the initial operations of newly constructed petroleum refineries.

He became Assistant Manager at Torrance in 1944 and Manager of the 100,000 barrel per day plant in 1945.

A native of Salem, Illinois, and a graduate of the University of Michigan, Curtis served in an advisory capacity with the Petroleum Administration for War, District 5, during the War. He is a member of the American Society of Chemical Engineers.

Henry A. Brett, 62, Union Oil Company engineer, died in Los Angeles, where he had resided for 55 years. He was a native of Philadelphia.

Problems of "Executive Development" were the subject of an address by H. L. Samuelson at the monthly membership meeting of the Personnel and Industrial Relations Association at Rodger Young Auditorium, Los Angeles. A former Los Angeles resident. Samuelson was personnel manager of Standard of California there before the war. Now manager of executive development, Samuelson is stationed at the home office of the company in San Francisco.

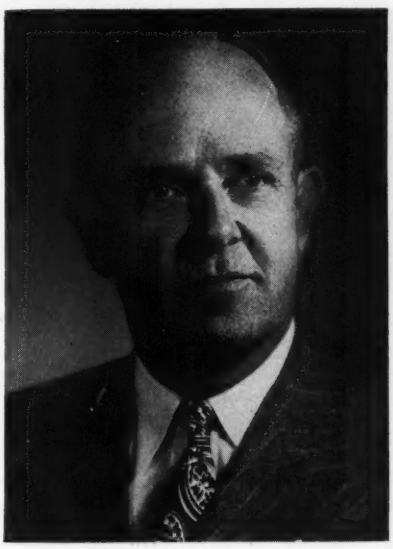
Elmer C. von Glahn has announced that his von Glahn Oil Company has opened Los Angeles offices in the Pacific Mutual Building. The main office is at Corcoran and a branch office at San Francisco.

Vice President and Personnel Manager W. R. Davis of Southern California Gas has been elected a member of the board of directors of the company.

T. J. Gates, maintenance control engineer for General Petroleum, and S. J. Artese, chief inspection and corrosion engineer for Shell Oil, were chief speakers at the meeting of the California Natural Gasoline Association at Rio Hondo Golf Club. The topic of the former was "Refinery Maintenance." Mr. Artese discussed "Corrosion of Sulphur Compounds in Petroleum Refining."

General Levin H. Campbell, Jr. Elected A Director of Universal Oil Products Co.

General Levin H. Campbell, Jr., executive vice president of International Harvester Company has been elected to the Board of Directors of Universal Oil Products Company, Chicago, according to a statement released by David W. Harris, president of Universal.



Gen. L. H. Campbell, Jr.

General Campbell, who became associated with Harvester in 1946, will be remembered as Chief of Ordnance during World War II and under his direction the Armies of the United Nations were supplied with some 50 billion dollars worth of equipment.

Immediately after the war the General served as Deputy to the Director of War Mobilization and Reconversion. In February, 1946 he retired from the Army with the rank of Lieutenant General and became associated with Harvester in the position of vice president. In May 1947 he was appointed ex-

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ecutive vice president and in a staff capacity coordinates activities in connection with production, engineering, research, purchasing and traffic, and inventory control as related to manufacturing operations.

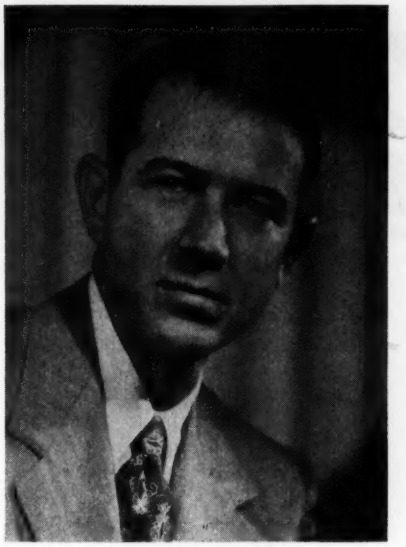
General Campbell's decorations include the Distinguished Service Medal with Oak Leaf Cluster—Army; Distinguished Service Medal—Navy; Cross of the French Legion of Honor, in the rank of Officer; and Knight Commander Most Excellent Order of the British Empire.

He is an Honorary Life Member of the American Society of Mechanical Engineers, and holds the Honorary Degree of Doctor of Laws of the University of Arkansas. He is a Director of the Metropolitan Body Company, American Steel Foundries, and International Harvester Company of Canada, Ltd. General Campbell is also a Trustee of the Illinois Institute of Technology and a member of the Executive Committee of the Armour Research Foundation. His clubs include the Chicago, Casino, Westmoreland, and the Army and Navy of Washington.

"The largest single item of expense and one that is of greatest concern to most businesses is pay roll," E. J. McClanahan, vice president of Standard of California at San Francisco, said in a speech at the mid-year meeting of the marketing division of the American Petroleum Institute at Kansas City, Mo.

Tom Regan of Regan Forge & Engineering Company, whose company was recently named sales agent in California for Camco Gas Lift Valves, states that a complete inventory of all Camco products will be maintained by Regan Forge & Engineering Company both at San Pedro and Bakersfield stores. According to Tom Regan, several highly successful installations have already been made in major oil company wells in California.

Paul Mills, Chairman of the Board of Camco and Harry Eicher, Chief Engineer, are scheduled to arrive from Houston on May 15th. They will make a two weeks survey of California oil fields.



Paul Courtney

A. H. Miller

Courtney Appointed EMSCO Vice-President

Paul Courtney, Manager of Emsco's Houston Plant operations, was appointed Vice-President of Emsco Derrick and Equipment Company at the Directors' Meeting following the Annual Meeting of the company's stockholders held in Los Angeles, California, Tuesday, April 11.

Mr. Courtney is well-known in the oil fraternity throughout the world, having traveled extensively in the interests of Emsco Derrick and Equipment Co. in both domestic and foreign fields. He has been with Emsco since 1938 and has been manager of Emsco's Houston plant operations since 1946.

Also appointed at the Directors' Meeting was Mr. A. H. Miller, who was named Secretary and Treasurer of Emsco Derrick and Equipment Company. Mr. Miller has been with Emsco for twenty-one years and was secretary and assistant treasurer before his new appointment.

Last rites were held in Palo Alto for Jasper W. Paulson, Jr., 54, geologist and petroleum engineer for the Doheny and Robert S. Lytle interests. One of the best known members of the California oil fraternity, Mr. Paulson died in Hollywood Hospital following a throat operation. Mr. Paulson, instrumental in development of many important oil areas, is survived by his wife, Gladys; daughter, Mrs. Barbara Makinney; and parents. He resided at 5256 Village Green, Los Angeles.

Reelection of Reese H. Taylor, president of Union Oil, as a board member of the National Industrial Conference Board, was announced in New York.

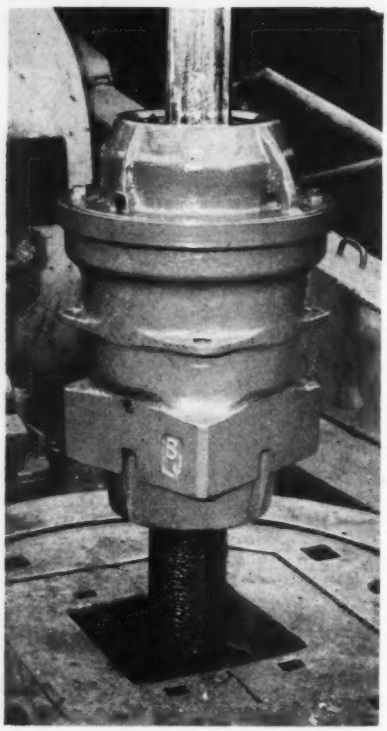
R. D. Stetson, Los Angeles marketing division manager for Shell Oil, recently met with company marketing men from 17 major cities in the United States at San Francisco.

The tidelands issue was discussed by Raymond C. Kealer at the meeting of the Los Angeles Open Forum Breakfast Club in Los Angeles. Kealer is chairman of the Long Beach City Council's harbor, oil and industries committee.

Sam Bowlby, president of Petroleum Production Pioneers, foresees no less than 1000 veteran oilmen in attendance at the organization's barbecue May 27 at Steckel Park in Santa Paula. A visit will be made to the Union Oil Company museum, now in the process of completion. The museum comprises California's first collection of antique petroleum equipment and mementoes.

Byron Jackson Co. Announces Type "B" Kelly Drive Bushing

Byron Jackson Co. announces their new product the type "B" kelly drive bushing is now in production after 18 months of field testing.



The body of the new BJ "B" kelly bushing is of solid one piece construction. An oil resistant inner cushion fits the corrugated bore of the body to absorb the shock and assures a silent drive as the kelly rotates.

A slip retaining ring provides a positive lock and quick method of changing the kelly bushing to fit all sizes of square kellys from 3" to 6" inclusive.

A unique feature of the BJ "B" Kelly bushing is the grease-packed body. The bushing incorporates two kelly wipers, one at top and one at bottom, which retain the grease within the bushing, providing constant lubrication between the kelly and liner surfaces at all times. These kelly wipers also prevent all foreign matter, some of which contains abrasive material, from entering the bushing. This feature minimizes friction between the kelly and liners, insures longer life to the liners, and the kelly remains smooth and polished. Liners are available in either steel or aluminum bronze.

The new BJ "B" kelly bushing body takes all sizes of slips, liners and wipers necessary to fit all square kellys from 3" to 6" inclusive. One set of slips, liners and wipers are necessary for each kelly size.

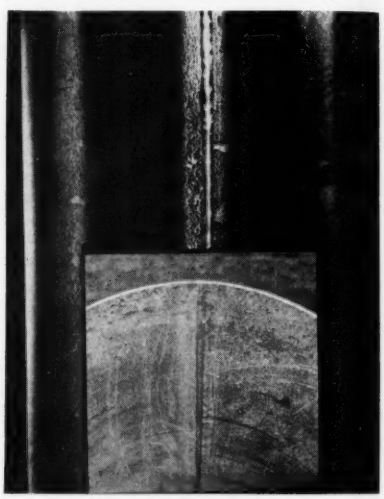
A complete bulletin with parts list, exploded views and other data on the new BJ type "B" kelly bushing is available by writing Byron Jackson Co., P. O. Box 2017 Terminal Annex, Los Angeles 54, California.

How to Select Welded Steel Pipe

Helpful information regarding general points to look for when selecting welded steel pipe, comes from the American Pipe & Steel Corporation of Alhambra, California.

Although pipe is a fairly standard commodity generally purchased to specifications on a bid basis, consideration of the following facts can often mean the difference between a successful and unsuccessful operation.

Of prime importance is the skill and experience of the manufacturer, the number of years he has been in business and his reputation for supplying a guaranteed product to exact specifications (or better) on **time.** Second, is the calibre and efficiency of the manufacturer's equipment and the scientific know how of his personnel. This can be best determined by securing actual samples of welded pipe. Of the various welding processes, automatic fusion welding is recognized as providing full weld penetration most uniformly and consistently. In the accompanying close-up photograph (courtesy American Pipe & Steel Corporation) note the smooth outside bead and the even, uniform weld penetration. This vital phase of pipe fabrication ensures leakproof safety with minimum repairs.



Inside and Outside View

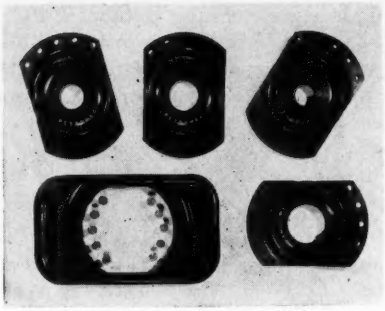
A third important factor is lightness of weight consistent with size and safety. This means more lineal feet of pipe per ton dollar plus reduced shipping and handling costs. Accuracy and uniformity of gauge and diameter, convenience of lengths supplied are also important points. Check these points before ordering.

Another consideration is the manufacturer's testing of the pipe. It should be hydrostatically tested to at least 1½ times its designated safe working pressure (with a safety factor of 4 to 1) to doubly guarantee your safe, leakproof service. A final

economy point (after all other specification factors are considered) is to stay within standard diameters, lengths, wall thicknesses and pressure limits where possible. These standard diameters run from 3" through 24", lengths: 8', 12', 20', 40', wall thicknesses: No. 14 gauge through ¼", pressure limits 574 through 1057 p.s.i. Of course nonstandard welded steel pipe to suit your special needs can be fabricated by well-equipped manufacturers at slight extra cost. Questions concerning the fabrication or installation of welded steel pipe may be addressed to the American Pipe & Steel Corporation, Alhambra, California.

New Pipe Wiper Introduced

A new design drill pipe wiper which features a single body to accommodate different sizes of inserts for various pipe sizes has been announced by Petroleum Mechanical Development Company, Houston. It will be marketed under the trade name FLEX-LIP. John Eckel and Marvin Jones are partners in Petromec.



Four outstanding new features are claimed for the new pipe wiper by the manufacturer: (1) economy since one body size accommodates all pipe and rotary sizes and it is only necessary to replace the inserts; (2) a floating accordion action which allows the wiper to follow the pipe on any off-center condition so that the wiper is always in contact with all parts of the pipe at all times; (3) greater convenience of installation since the wiper can be installed or removed without pulling rotary bushings; and (4) a balanced design which gives the body strength, stiffness and durability and allows the inserts to be made of a fast snap-back, high tensile material.

"The Flex-Lip Wiper principle is as simple and logical," said John Eckel, "as the practice of making automobile tires replaceable on wheels."

"When the part that takes the abuse is worn out, you simply replace that part at far less cost than the replacement cost of the entire unit," he added.

Exhaustive laboratory and field testing have been done on the new Flex-Lip Pipe Wipers. They will be sold through supply stores. Further information will be forwarded on request by the manufacturer, Petroleum Mechanical Development Company, 3803 South Main Street, Houston, Texas.

Wilmington Well Tested

On formation test of the interval of 7021-7087 ft., the Airway Petroleum Corporation Santa Susana No. 1 on Sec. 16-4s-13w at North Wilmington, showed a strong gas blow out while open 17 minutes. Present depth of the well is 7310 ft.

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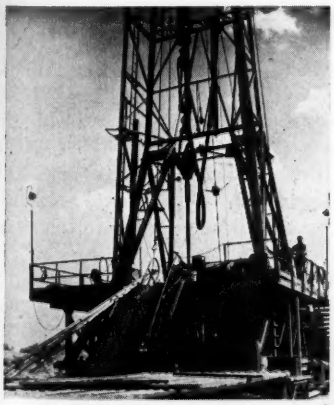

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Research Today and Tomorrow

(Continued from Page 7)

from refinery gases. This, or equivalent processing, should be useful in separating hydrogen from methane since catalytic cracking plant residue gases are particularly rich sources of hydrogen and are a potential source for future requirements in hydrogenation.

Recovery of by-products, presently mostly utilized as fuels, is receiving greater attention. For example, plants recently have been built to convert hydrogen sulfide present in refinery and field gases into elemental sulfur.

Other Research Activities

A large part of petroleum research will continue to be devoted to engine and field testing of potentially new products, and to educating the consumer in proper use of the current fuels and lubricants offered for sale.

Summarizing, research activities could be classified under three main headings:

Applied Research and Development: Technical work directed to achieving some immediate and practical end through use of available data or by experimentation. As gauged by funds allocated, this category ranks first in importance.

Technical Service: Technical guidance in connection with existing processes or products is rendered by most research organizations.

Basic Research: This type of technical work is of greatest fundamental importance and is directed to the finding of new facts. Basic research necessarily is pursued without regard to ultimate use or to considerations of immediate profit.

Research is a creator of progress. Whereas geographical frontiers are shrinking, science through research activity is ever expanding into the unknown. With greater accent on chemical technology, opportunities more than ever, are presenting themselves for chemists and engineers to participate in top management.

This paper was prepared for and delivered at the Conference on Petroleum Refining October 1, 1949, as a part of the program for the observance of the Seventy-fifth Anniversary of the Colorado School of Mines.

Alaskans Are Neighborly People

Recently the editor received the following very interesting story sent by E. L. "Gene" Davis to Walter Greenfield.

The Dwight "Red" Crosslands were expecting their second baby. "Red", in charge of "bush" flying for operations in Naval Petroleum Reserve No. 4, Point Barrow, lived in Barrow Village because no children are permitted at the Navy-Contractors Barrow Camp. Mrs. Crossland, Doreen, had arranged to stay in Fairbanks with her friend, Alberta Mathews, wife of the Assistant Project Manager, Ted Mathews, but the problem was what to do about her 18 months old baby, Chris. She didn't want to burden Mrs. Mathews, who has three small boys of her own.

She wished audibly to friends, that she could send Chris to her mother whose home is in Whittier, California.

Shortly thereafter, Ray Bills, lean, bushy browed rig builder foreman offered to take the child to Whittier when he went to Los Angeles on his annual leave.

"But Ray" expostulated one of the Barrow married ladies, "you might have to change him."

"Shucks" said Ray, "Nothing to it. I've changed many a one."

Young Chris arrived safely in Whittier and in due time the new baby was born to Mrs. Crossland. Now the problem was to get Chris back.

In the meantime, W. J. "Swede" Larson had arrived at Barrow to take up his duties as Chief of Drilling and Production Operations. Mrs. Larson was to come later from their home at Rivera, California.

The Crosslands were notified that Mrs. Larson would be glad to bring Chris back to Alaska. Fortunately Rivera and Whittier are neighboring towns.

So, about the time Mrs. Crossland was ready to fly back from Fairbanks to Barrow, Mrs. Larson arrived with Chris, well and happy.

"No trouble at all" said Mrs. Larson.

Everything turned out well, and many people were made happy and contented. Since the airlines carry children-in-arms free, Chris' 6500 mile ride didn't cost anybody anything except some neighborliness. And Alaskans are neighborly people—also resourceful.

National Oil Acquires Own Bldg.

National Oil Company of which Ross McCollum is president, has acquired control of the 13-story Class-A height-limit building at 6th and Grand in Los Angeles and has moved its headquarters office there.

The structure, formerly known as the Edwards and Wildey Building, has been re-named the National Oil Building. Control was acquired through purchase of outstanding bonds and stock in the open market.

National is a producer in the Taft, Kern River, and Kern Field areas in Kern County.

Brown Drilling Company of Long Beach, California and partners are standing cemented with 7" casing at 3563 ft. on a new discovery in Jack County, Texas. This well penetrated the Strawn series and picked up 13 feet of well saturated oil sand. A test of the interval produced a substantial rise of clean oil, indicating that the well will be better than average for that section. The well is on the J. D. Gillespie property which was obtained on a farm-out from Shell Oil Company. It is located approximately 7 miles north of the town of Jermyn. Following completion of this well, additional drilling will be done on the property, spotting locations at about one to ten acres.

The completion gives Brown Drilling Company an interest in 18 producing wells in Texas. There are 14 on the McGregor lease at Wichita Falls. One on the Hammond lease in the same area, and two on the Hoffman lease, near Scotsboro. It is interesting that Brown Drilling's initial strike in Texas took place on Friday, May 13, 1949, on which date Hammond No. 1 and McGregor No. 1 were both brought in as flowing wells.

Calder Try Digs

Three locations south of the present production limits of the Calder field, General Petroleum has spudded its Kopps No. 54-26 on Sec. 26-29s-25e.

Jacalitos Test Reams

In the Jacalitos Hills of Fresno County, Ohio Oil Company is down 7027 ft. with its Ohio-Gulf-H. C. Lillis No. 1 on Sec. 28-21s-16e and reaming.

Lost Hills Well Testing

General Petroleum Corporation is plugging back and testing by stages its Williamson No. 33-11 deep wildcat on Sec. 11-26s-20e at Lost Hills. Drilled to a total depth of 11,553 ft., several other companies are understood to have contributed dry hole money to the project. Standard of California recently gave up its Van Sicklin No. 1 well in the area at 14,577 ft.

Huron Wildcat Starting Work

Triumph Oil Company has begun work on its Ferrand No. 3 on Sec. 34-20s-18e in the Huron area of Fresno County. Drill site is about three miles east of Guijarral Hills. On Sec. 14-20s-18e, General Petroleum is making hole at 9450 ft. with its B.L.C. No. 44-14 test.

Jasmine Well In

A yield of 75 barrels of 14 gravity crude oil a day was the last report from Electra Oil Company's new well on the Quinn Ranch at Jasmine, Kern County. The producer, on Sec. 15-25s-27e, is bottomed at 2795 ft. and has 7-in. casing concreted at 2774 ft.

Gould Hills Wildcat Digs

Drilling is proceeding below 8950 ft. in the Los Nietos Company Richardson No. 77X-7 on Section 7-29s-21e at Gould Hills. Present formation is hard brown shale.

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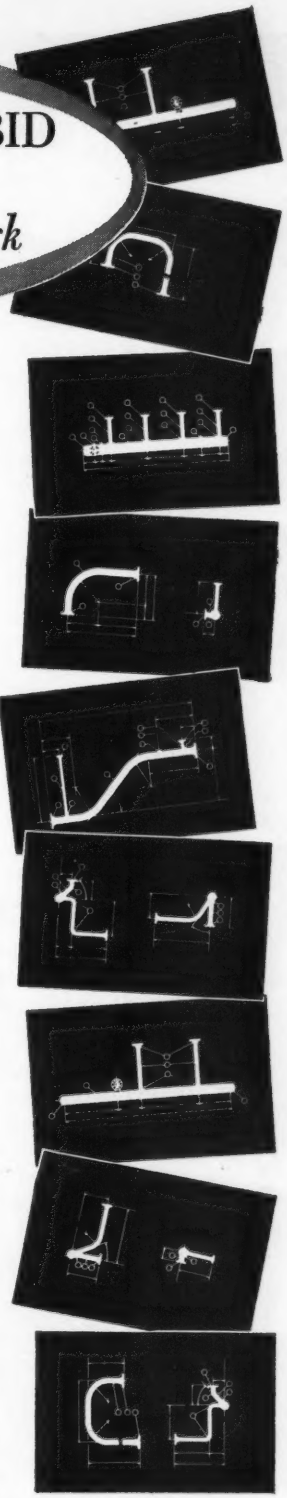

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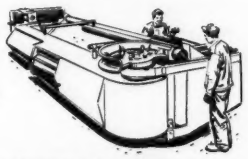

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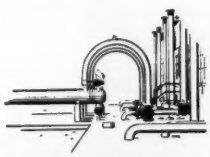

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LAUGH THIS OFF!!

Mandy was in the hospital having a baby. She kept screaming and screaming. Finally a doctor came up to her and said, "Mandy, there is no need to scream so loud—if you would concentrate more you wouldn't scream so much."

She paid no attention to the doctor and kept right on screaming. Then, suddenly, she stopped. The doctor ran over to her and asked what the matter was.

She asked, "Is Jasper still downstairs?"

"Yes," replied the doctor, "he is downstairs pacing the floor."

"Well," said Mandy, "you go right down and tell him that if this is a sample of married life—I don't even want to be engaged!"

A lucky man was made very rich over night when oil was found on his farm. All of his life he had said that if he ever had the money, the first thing he would buy would be a big Cadillac automobile.

So bright and early that morning, he headed for the big city and the Cadillac dealer. He was shown several cars, but none of them was just what he wanted.

"Well, sir," the dealer was not impressed with his dress, "here is our largest and finest car, but the price is a little high."

"How much is it?" the man inquired.

"$5,000."

"Oh, I say that is high. I am prepared to pay cash for it. Will I get a discount?"

"Why, of course, sir," the salesman brightened up considerably. "We will give you a 10 per cent discount for cash."

The buyer was not good at figures and he couldn't decide how much he would have to pay for the car, so he told the salesman he would go around the corner and eat his breakfast while he considered the deal but that he would be back presently.

He walked into a cafe and sat down, trying hard to figure what his discount would be. A waitress came up, and he looked at her and asked, "If I were going to give you 10 per cent of $5,000, how much would you take off?"

"Would my ear bobs bother you, bub?"

Prosperity means wine, women and song. A depression means beer, mama and the radio.

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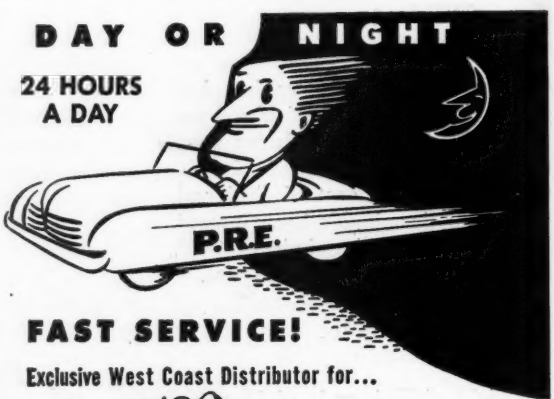

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